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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,487	07/25/2003	Timothy R. Machold	RADME-64498	4201
24201 7590 07/10/2008 FULWIDER PATTON LLP HOWARD HUGHES CENTER 6060 CENTER DRIVE, TENTH FLOOR LOS ANGELES, CA 90045				
EXAMINER NASSER, ROBERT L				
ART UNIT		PAPER NUMBER		
3735				
MAIL DATE		DELIVERY MODE		
07/10/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/627,487

Applicant(s)

MACHOLD ET AL.

Examiner

ROBERT L. NASSER

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 April 2008.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 30 and 32-35 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 30, 32-35 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/CDC)
4) ☐ Interview Summary (PTO-413)
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____
Paper No(s)/Mail Date _____

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 30 is rejected under 35 U.S.C. 103 as being unpatentable over Saab 5624392 in view of Saringer 5895418, and Utterberg et al 6383158, Noda et al 6146411 and Hyatt 4800823. Saab shows a heat exchange catheter system having a heat exchange catheter, but it does not show the fluid supply structure. Saringer teaches in figures 22-24 a device to supply heat exchange fluid to a heat exchange device, a pad in this case, including a reservoir 320, a pump 314 which includes a pump head, an air vent 360 (see column 10, lines 47-50), an external heat exchanger 310, and an external fluid supply 320. The examiner notes that the fluid supply is external to the pump and heat exchanger. It would have been obvious to modify Saab to use such a fluid supply circuit, as it is merely the use of a known circuit to supply fluid to devices like Saab. The examiner notes that the embodiment is shown with all of the components open, with a housing 28 as shown in figure 1. The examiner takes official notice that it is well known to provide a cover, or bulkhead, on such a device, to prevent damage to or contamination of the components. The combination does not have vents that do not allow passage of liquid. Utterberg further teaches a hydrophobic vent is another known method to eliminate air from a fluid line. Hence, it would have been obvious to modify the combination to use such a vent, as it is merely the substitution of one known equivalent air removal technique for another. The combination performs the

steps of the method in claim 30. Noda further teaches providing a level sensor in the fluid supply circuit and shutting off the fluid when the level is too low. As such, it would have been obvious to modify the combination to use a fluid level sensor, to ensure patient safety. The combination does not activate a valve to add fluid into the circuit. Hyatt is select from many references that teach refilling a fluid circuit when the levels are too low by opening a valve in response to the level sensor. Hence, it would have been obvious to modify the combination to use such a refill circuit, to eliminate the need for human interaction and to provide for continuous use.

Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saab in view of Saringer, and Utterberg et al, Noda, and Hyatt, as applied to claim 30 above, further in view of Leung 4548212. Leung teaches damping chambers 26 and 27 for damping pressure variations in the flow to eliminate turbulence. Hence, it would have been obvious to modify Fontenot to use such a dampener, to avoid turbulence and provide a more uniform distribution of temperature.

Claims 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saab in view of Saringer, Utterberg et al, Noda, and Hyatt as applied to claim 30 above, further in view of Kolen et al 5980561. Kolen teaches using a constant pressure circulation pump in column 6, line 41. The examiner takes official notice that is known to drive a pump to produce constant pressure out by supplying it with constant current. Hence, it would have been obvious to modify the above combination, as it is merely the substitution of one known equivalent pump for another.

Applicant's arguments filed 4/1/2008 have been fully considered but they are moot in view of the new grounds of rejection.

To clarify, it is the examiner's position that it would have been obvious to include a cover housing, or bulkhead, on the device in figure 22, to prevent damage to the components.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT L. NASSER whose telephone number is (571)272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert L. Nasser Jr/
Primary Examiner
Art Unit 3735

RLN
July 4, 2008